LISTING OF THE CLAIMS

The following listing, if entered, replaces all prior versions of the claims in the present application.

1. (Currently Amended) A method comprising:

devices, and

detecting a failure of a first virtualization device of a storage area network interconnect, wherein said storage area network interconnect is coupled to a metadata host, said metadata host is configured to maintain metadata associated with said first virtualization device, said metadata host is configured to monitor a heartbeat signal from a plurality of virtualization

said first virtualization device is associated with a unique interconnect device identifier, wherein

a virtualization device with which the unique
interconnect device identifier is associated, and
the unique interconnect device identifier is configured to
identify the virtualization device as a target of a data
transfer request; and

associating said unique interconnect device identifier with a second virtualization device of said storage area network interconnect in response to said detecting, wherein said associating comprises modifying said metadata.

- 2. (Original) The method of claim 1 wherein
 - said storage area network interconnect is coupled to an application host and to a storage device,
 - said first virtualization device is configured to present a virtual storage element to said application host using a host device identifier, and said virtual storage element comprises at least a portion of said storage device.

- 3. (Previously Presented) The method of claim 2 wherein said second virtualization device is configured to present said virtual storage element to said application host using said host device identifier in response to said associating; and said second virtualization device is selected from a plurality of virtualization devices.
- 4. (Previously Presented) The method of claim 3 wherein said monitoring comprises:

monitoring a communications link for a heartbeat signal from said first virtualization device via a failover manager.

- 5. (Cancelled)
- 6. (Previously Presented) The method of claim 4 wherein said modifying comprises generating a metadata entry corresponding to said second virtualization device, and said metadata entry comprises said unique interconnect device identifier.
- 7. (Previously Presented) The method of claim 3 further comprising: storing a volume map at said second virtualization device in response to said detecting, wherein said volume map is provided by said metadata host.
- 8. (Original) The method of claim 3 wherein said unique interconnect device identifier comprises a Fibre Channel device identifier.
- 9. (Original) The method of claim 3 wherein said unique interconnect device identifier comprises at least one of a world wide node name and a world wide port name.
- 10. (Original) The method of claim 3 wherein said first virtualization device comprises a first virtualization switch, and said second virtualization device comprises a second virtualization switch.

11. (Currently Amended) A machine-readable medium storing a plurality of instructions executable by a machine embodied therein, wherein said plurality of instructions when executed cause said machine to perform a method comprising: detecting a failure of a first virtualization device of a storage area network interconnect, wherein

said storage area network interconnect is coupled to a metadata host,
said metadata host is configured to maintain metadata associated with said first
virtualization device, said metadata host is configured to monitor a
heartbeat signal from a plurality of virtualization devices, and
said first virtualization device is associated with a unique interconnect
device identifier, wherein

the unique interconnect device identifier is sufficient to identify
a virtualization device with which the unique
interconnect device identifier is associated, and
the unique interconnect device identifier is configured to
identify the virtualization device as a target of a data
transfer request; and

associating said unique interconnect device identifier with a second virtualization device of said storage area network interconnect in response to said detecting, wherein said associating comprises modifying said metadata.

- 12. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 11 wherein said storage area network interconnect is coupled to an application host and to a storage device,
 - said first virtualization device is configured to present a virtual storage element to said application host using a host device identifier, and said virtual storage element comprises at least a portion of said storage device.
- 13. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 12 wherein

- said second virtualization device is configured to present said virtual storage element to said application host using said host device identifier in response to said associating.
- 14. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 13 wherein said monitoring comprises:

monitoring a communications link for a heartbeat signal from said first virtualization device.

- 15. (Cancelled)
- 16. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 14 wherein said modifying comprises generating a metadata entry corresponding to said second virtualization device, and said metadata entry comprises said unique interconnect device identifier.
- 17. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 13, said method further comprising:

storing a volume map at said second virtualization device in response to said detecting, wherein said volume map is provided by said metadata host.

- 18. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 13 wherein said unique interconnect device identifier comprises a Fibre Channel device identifier.
- 19. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 13 wherein said unique interconnect device identifier comprises at least one of a world wide node name and a world wide port name.

- 20. (Previously Presented) The machine-readable medium storing a plurality of instructions executable by a machine embodied therein of claim 13 wherein said first virtualization device comprises a first virtualization switch, and said second virtualization device comprises a second virtualization switch.
- 21. (Currently Amended) A data processing system comprising: means for detecting a failure of a first virtualization device of a storage area network interconnect, wherein

said first virtualization device is associated with a unique interconnect device identifier, wherein

the unique interconnect device identifier is sufficient to identify
a virtualization device with which the unique
interconnect device identifier is associated, and
the unique interconnect device identifier is configured to
identify the virtualization device as a target of a data
transfer request,

- said storage area network interconnect is coupled to an application host, a metadata host, and to a storage device,
- said metadata host is configured to maintain metadata associated with a virtual storage element,
- said metadata host is configured to monitor a heartbeat signal from a plurality of virtualization devices,
- said first virtualization device is configured to present said virtual storage element to said application host using a host device identifier, and
- said virtual storage element comprises at least a portion of said storage device; and
- means for associating said unique interconnect device identifier with a second virtualization device of said storage area network interconnect coupled to said means for detecting, wherein said associating comprises modifying said metadata.
- 22. (Original) The data processing system of claim 21 wherein

- said second virtualization device is configured to present said virtual storage element to said application host using said host device identifier in response to said associating.
- 23. (Previously Presented) The data processing system of claim 22 wherein said means for detecting comprises:

means for monitoring a communications link for a heartbeat signal from said first virtualization device.

- 24. (Cancelled)
- 25. (Original) The data processing system of claim 22 wherein said unique interconnect device identifier comprises a Fibre Channel device identifier.
- 26. (Original) The data processing system of claim 22 wherein said unique interconnect device identifier comprises at least one of a world wide node name and a world wide port name.
- 27. (Original) The data processing system of claim 22 wherein said first virtualization device comprises a first virtualization switch, and said second virtualization device comprises a second virtualization switch.
- 28. (Currently Amended) A data processing system comprising:
 - a metadata host, wherein the metadata host comprises:
 - a monitor module to monitor a communications link for a heartbeat signal from a first virtualization device of a storage area network interconnect, wherein said first virtualization device is associated with a unique interconnect device identifier, wherein

the unique interconnect device identifier is sufficient to identify

a virtualization device with which the unique
interconnect device identifier is associated, and
the unique interconnect device identifier is configured to
identify the virtualization device as a target of a data
transfer request; and

- a failover module coupled to said monitor module to detect a failure of said first virtualization device and to associate said unique interconnect device identifier with a second virtualization device of said storage area network interconnect in response to said detecting.
- 29. (Original) The data processing system of claim 28 wherein said storage area network interconnect is coupled to an application host and to a storage device, said first virtualization device is configured to present a virtual storage element to said application host using a host device identifier, and said virtual storage element comprises at least a portion of said storage device.
- 30. (Original) The data processing system of claim 29 wherein said second virtualization device is configured to present said virtual storage element to said application host using said host device identifier following a failure of said first virtualization device.